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=> FILE REG
FILE 'REGISTRY' ENTERED AT 11:38:30 ON 03 DEC 2008
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COPYRIGHT (C) 2008 American Chemical Society (ACS)
=> DISPLAY HISTORY FULL L1-
     FILE 'HCAPLUS' ENTERED AT 10:10:28 ON 03 DEC 2008
L1
           3700 SEA DEANGELIS ?/AU OR DE ANGELIS ?/AU OR ANGELIS ?/AU
L2
             31 SEA POLLESEL ?/AU
L3
            181 SEA BELLUSSI ?/AU
L4
           1645 SEA LOCKHART ?/AU
L5
              0 SEA L1 AND L2 AND L3 AND L4
L6
              0 SEA L2 AND L3 AND L4
L7
              0 SEA L3 AND L4
L8
         35423 SEA DISPOS?/TI
L9
         135174 SEA SULFUR#/TI
L10
             91 SEA L8 AND L9
L11
              0 SEA L10 AND ((L1 OR L2 OR L3 OR L4))
     FILE 'REGISTRY' ENTERED AT 10:56:26 ON 03 DEC 2008
                E SULFUR/CN
L12
              1 SEA SULFUR/CN
L13
            238 SEA S/ELS AND 1/ELC.SUB
                E HYDROGEN SULFIDE/CN
              1 SEA "HYDROGEN SULFIDE"/CN
T.14
     FILE 'HCA' ENTERED AT 10:59:54 ON 03 DEC 2008
L15
            154 SEA L12 (L) DISPOS?
L16
            892 SEA L12 (L) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT?
                OR REMEDIAT? OR SEQUEST? OR STORE# OR STORING# OR
                STORAG?)
L17
            820 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
                S) (2A) DISPOS?
           7454 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
L18
                S) (2A) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT? OR
                REMEDIAT? OR SEQUEST? OR STORE# OR STORING# OR STORAG?)
L19
             13 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
                S) (5A) (CONVERT? OR CONVERS? OR TRANSFORM? OR CHANG?) (5A) (
                ?SULFAN? OR ?SULPHAN?)
T.20
          2781 SEA L12 (L) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR
                FUSION?)
L21
         14422 SEA (SULFUR# OR SULPHUR# OR SULFER# OR SULPHER# OR
                S) (2A) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR FUSION?)
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L22
         183 SEA L13 (L) DISPOS?
L23
           972 SEA L13 (L) (FIX OR FIXES OR FIXED OR FIXING# OR FIXAT?
               OR REMEDIAT? OR SEQUEST? OR STORE# OR STORING# OR
               STORAG?)
L24
          3198 SEA L13 (L) (MOLTEN? OR MELT? OR FUSE# OR FUSING# OR
               FUSION?)
L25
        111282 SEA L14 OR (HYDROGEN# OR H) (W) (SULFIDE# OR SULPHIDE#) OR
               H2S
L26
         42010 SEA ?SULFAN? OR ?SULPHAN?
L27
          1228 SEA ?SULFANE? OR ?SULPHANE?
L28
             2 SEA (L15 OR L17 OR L22) AND L26
L29
             0 SEA (L15 OR L17 OR L22) AND L27
L30
            12 SEA (L16 OR L18 OR L23) AND L26
L31
            6 SEA (L16 OR L18 OR L23) AND L27
L32
            23 SEA (L20 OR L21 OR L24) AND L26
L33
             6 SEA (L20 OR L21 OR L24) AND L27
L34
             2 SEA L32 AND L25
       180564 SEA L12 OR L13
L35
L36
           104 SEA L35 AND L25 AND L26
L37
            76 SEA L35 AND L25 AND L27
L38
             7 SEA L36 AND ((L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR
               L21 OR L22 OR L23 OR L24))
    FILE 'REGISTRY' ENTERED AT 11:23:31 ON 03 DEC 2008
               E CHLORINE/CN
L39
             1 SEA CHLORINE/CN
L40
           218 SEA (H (L) S)/ELS (L) 2/ELC.SUB
L41
           136 SEA L40 AND 1<S
1.42
           119 SEA L41 NOT (D OR T)/ELS
    FILE 'HCA' ENTERED AT 11:26:00 ON 03 DEC 2008
L43
        120277 SEA L39 OR CL2 OR (CHLORINE# OR CL)(2A)(GAS## OR
               GASEOUS? OR GASIF? OR ATM# OR ATMOS?)
L44
           669 SEA L42 OR H2SN+1
L45
           345 SEA L35 AND L43 AND L25
L46
             9 SEA L45 AND L44
L47
            6 SEA L45 AND L26
L48
             3 SEA L45 AND L27
    FILE 'REGISTRY' ENTERED AT 11:28:04 ON 03 DEC 2008
               E SULFUR DICHLORIDE/CN
L49
             1 SEA "SULFUR DICHLORIDE"/CN
              E HYDROGEN CHLORIDE/CN
T-50
             1 SEA "HYDROGEN CHLORIDE"/CN
    FILE 'HCA' ENTERED AT 11:29:43 ON 03 DEC 2008
         2757 SEA L49 OR SCL2 OR CL2S
L51
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L52
         668673 SEA L50 OR HCL OR (HYDROGEN# OR H) (W) (CHLORIDE# OR
                MONOCHLORIDE#) OR (HYDROCHLORIC# OR MURIATIC?) (2A) ACID#
L53
             12 SEA L45 AND L51
L54
            157 SEA L45 AND L52
L55
              5 SEA L53 AND L54
L56
           6882 SEA (PRODUC? OR PROD# OR GENERAT? OR MANUF? OR MFR# OR
                CREAT? OR FORM## OR FORMING# OR FORMAT? OR MAKE# OR
                MADE# OR MAKING# OR FABRICAT? OR SYNTHESI? OR PREPAR? OR
                PREP#)(2A)(?SULFAN? OR ?SULPHAN?)
L57
             24 SEA L36 AND L56
L58
             22 SEA L37 AND L56
L59
             54 SEA L19 OR L28 OR L30 OR L31 OR L33 OR L34 OR L38 OR L46
                OR L47 OR L48 OR L53 OR L55
             44 SEA L19 OR L28 OR L31 OR L33 OR L34 OR L38 OR L46 OR L47
1.60
                OR L48 OR L55
1.61
             10 SEA (L30 OR L53) NOT L60
L62
             20 SEA (L57 OR L58) NOT (L60 OR L61)
L63
             72 SEA (L36 OR L37) NOT (L60 OR L61 OR L62)
L64
             37 SEA 1808-2003/PY, PRY, AY AND L60
L65
            10 SEA 1808-2003/PY, PRY, AY AND L61
L66
             20 SEA 1808-2003/PY, PRY, AY AND L62
L67
             67 SEA 1808-2003/PY, PRY, AY AND L63
L68
           2734 S CLAUS
L69
           1626 S L68 AND L35
L70
              4 S L69 AND (L44 OR L26)
L71
           1247 S L69 AND L25
L72
              0 S L71 AND L51
L73
             10 S L71 AND L52
L74
             1 S L-71 AND L-43
L75
             13 S (L70 OR L73 OR L74) NOT (L64 OR L65 OR L66 OR L67)
L76
             12 S 1808-2003/PY, PRY, AY AND L75
L77
           4202 S (L12 OR L13) (L) WAST?
L78
           9159 S WAST?(2A)(SULFUR# OR SULFER# OR SULPHUR# OR SULPHER# OR
L79
             22 S (L77 OR L78) AND L26
L80
             5 S (L77 OR L78) AND (L27 OR L44)
L81
             21 S (L79 OR L80) NOT (L76 OR L64-L67)
L82
            18 S 1808-2003/PY, PRY, AY AND L81
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=> FILE HCA
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FILE 'HCA' ENTERED AT 11:39:41 ON 03 DEC 2008

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- => D L64 1-37 TI
- L64 ANSWER 1 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Methods and compositions for increasing the efficacy of biologically-active ingredients such as antitumor agents
- L64 ANSWER 2 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Role of organic mediators in conversion of hydrogen sulfide and sulfanes to elemental sulfur
- L64 ANSWER 3 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Procedure for the conversion of polysulfane in hydrogen sulfide and sulfur in gas flows resulting in hydrogen sulfide synthesis.
- L64 ANSWER 4 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Production of polymeric sulfur using a cross-linking agent
- L64 ANSWER 5 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Determining priority hazardous substances related to hazardous waste sites
- L64 ANSWER 6 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Fluorinated ketene dithioacetals. 8. 1,1-Bis(ethylsulfanyl)perfluorobut-1-ene as starting material for the synthesis of substituted 2-(trifluoromethyl)furans and -pyrroles
- L64 ANSWER 7 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Stereospecific synthesis and hydrolysis of optically active diaryl(acylamino)(acyloxy)spiro- $\lambda 4$ -sulfanes and related cyclic diaryl(acylamino)sulfonium salts
- L64 ANSWER 8 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Rhodanese activity and total sulfur content in frog and mouse liver
- L64 ANSWER 9 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Thermodynamic aspects of energy conservation by chemolithotrophic sulfur bacteria in relation to the sulfur oxidation pathways
- L64 ANSWER 10 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Determining priority hazardous substances related to hazardous waste sites
- L64 ANSWER 11 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Photoionization spectra and ionization energies of HSCl, HSSSH,

SSC1, and HSSC1 formed in the reaction system C1/C12/ $\mbox{\em H2S}$

- L64 ANSWER 12 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI "Oyster watch": monitoring trace metal and organochlorine concentrations in Sydney's coastal waters
- L64 ANSWER 13 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI RI-MP2. First derivatives and global consistency
- L64 ANSWER 14 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Copolymerization of elemental sulfur with cyclic(arylene disulfide) oligomers
- L64 ANSWER 15 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Oxidative metabolism of inorganic sulfur compounds by bacteria
- L64 ANSWER 16 OF 37 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI} \quad {\tt A} \ {\tt new} \ {\tt method} \ {\tt for} \ {\tt the} \ {\tt synthesis} \ {\tt of} \ {\tt two-equivalent} \ {\tt couplers} \ {\tt in} \ {\tt color} \ {\tt photography}$
- L64 ANSWER 17 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Stereocontrolled synthesis of E-homoallylic sulfides with 1,4,5 related chiral centers using the [2,3] sigmatropic rearrangement of sulfonium ylides
- L64 ANSWER 18 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Geochemical implications of subaqueous molten sulfur at Yuqama Crater Lake, Kusatsu-Shirane Volcano, Japan
- L64 ANSWER 19 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Land disposal restrictions for third third schedule wastes
- L64 ANSWER 20 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Heat capacity, melting enthalpies, and melting temperatures of pure liquid inorganic compounds
- L64 ANSWER 21 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Electron correlations in molecules. III. Strength of electron correlations in localized and aromatic bonds or main-group atoms
- L64 ANSWER 22 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Equilibrium analysis of combustion/incineration
- L64 ANSWER 23 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI γ -Radiolysis of dialkyl, alkyl-aryl and diaryl sulfones. A volatile product study

- L64 ANSWER 24 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Reagent hazards
- L64 ANSWER 25 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Formation and decomposition of thiosulfate in the ferrous sulfide-sulfur dioxide reaction
- L64 ANSWER 26 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Dangerous chemicals reactions. 39. Inorganic oxides
- L64 ANSWER 27 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Determination of sulfur in organic compounds by fusion with aluminum powder
- L64 ANSWER 28 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI General pseudopotential model for molecules with many valence electrons
- L64 ANSWER 29 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Condensation of 1,3-hexasulfur diimide with chlorosulfanes as a route to fused-ring sulfur nitrides
- L64 ANSWER 30 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Influence of fungicides on the quality and storageability of apples
- L64 ANSWER 31 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Additive function of entropy of boiling, and the prediction of latent heat of vaporization and vapor pressure of liquids
- L64 ANSWER 32 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XLI. The reaction of hydrogen sulfide with chlorosulfanes, chlorine, or bromine (synthesis of lower sulfanes)
- L64 ANSWER 33 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XXIII. Preparation of higher
- L64 ANSWER 34 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Reductone. III. The elucidation of the structure of 5-aryl-3-hydroxytetronimides
- L64 ANSWER 35 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Raney metals as desulfurization catalysts. I
- L64 ANSWER 36 OF 37 HCA COPYRIGHT 2008 ACS on STN

- TI Isomerism of the diazosulphanilic acids and diazo-ethers
- L64 ANSWER 37 OF 37 HCA COPYRIGHT 2008 ACS on STN
- TI Note on the interaction of bismuth haloid compounds and hydrogen sulphide
- => D L64 2,3,10,18,19 BIB ABS HITSTR HITIND
- L64 ANSWER 2 OF 37 HCA COPYRIGHT 2008 ACS on STN
- AN 142:137629 HCA Full-text
- TI Role of organic mediators in conversion of hydrogen
 - sulfide and sulfanes to elemental sulfur
- AU Berberova, N. T.; Fomenko, A. I.; Shinkar, E. V.; Osipova, V. P.; Monyashin, A. O.; Zin'kov, F. E.
- CS Astrakhan. Gos. Tekh. Univ., Astrakhan., Russia
- SO Izvestiya Vysshikh Uchebnykh Zavedenii, Khimiya i Khimicheskaya Tekhnologiya (2003), 46(6), 74-78 CODEN: IVUKAR: ISSN: 0579-2991
- PB Ivanovskii Gosudarstvennyi Khimiko-Tekhnologicheskii Universitet
- DT Journal
- LA Russian
- AB It was shown that polysulfanes contained in sulfur are prone to single-electron, irreversible oxidn. in non-aq. media. Radical cations of sulfanes are fragmented with proton elimination.

 Electrochem. and chem. oxidn. of higher sulfanes to elemental sulfur involves stages of formation of lower polysulfanes. As mediators in transformation of hydrogen sulfide and sulfanes into sulfur, various org. single-electron oxidants were used. Sterically hindered obenzoquinones and o-semiquinondiamine platinum and palladium complexes were used as catalysts of sulfur degasification process.

 T704-34-9P. Sulfur, preparation
 - T 7704-34-9P, Sulfur, preparation (conversion of hydrogen sulfide and sulfanes to)
- RN 7704-34-9 HCA

S

CN Sulfur (CA INDEX NAME)

IT 7783-06-4, Hydrogen sulfide, reactions (conversion of hydrogen sulfide and sulfanes to elemental sulfur)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

PΙ

DE 10245164

```
49-1 (Industrial Inorganic Chemicals)
CC
     Section cross-reference(s): 72
ST
    Claus process sulfur purifn hydrogen sulfide
    sulfane removal
IT
    Cyclic voltammetry
    Oxidation
    Oxidation, electrochemical
        (conversion of hydrogen sulfide and
        sulfanes to elemental sulfur)
ΙT
    Decomposition
        (of polysulfanes; conversion of hydrogen
        sulfide and sulfanes to elemental sulfur)
    7704-34-9P, Sulfur, preparation
IΤ
        (conversion of hydrogen sulfide and
        sulfanes to)
ΙT
    7783-06-4, Hydrogen sulfide, reactions
     37331-50-3, Sulfane
        (conversion of hydrogen sulfide and
        sulfames to elemental sulfur)
     3383-21-9 34105-76-5 37780-09-9
                                          329783-64-4 590418-61-4
ΙT
        (in sulfur purifn.; conversion of
       hydrogen sulfide and sulfanes to
       elemental sulfur)
L64 ANSWER 3 OF 37 HCA COPYRIGHT 2008 ACS on STN
    140:273048 HCA Full-text
AN
    Procedure for the conversion of polysulfane in
TΙ
    hydrogen sulfide and sulfur in gas flows resulting
     in hydrogen sulfide synthesis
    Moeller, Alexander; Boeck, Wolfgang; Taugner, Wolfgang; Heinzel,
IN
    Harald; Rautenberg, Stephan
PA
    Degussa A.-G., Germany
SO Ger. Offen., 2 pp.
    CODEN: GWXXBX
DT Patent
T.A
    German
FAN.CNT 2
    PATENT NO. KIND DATE APPLICATION NO. DATE
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A1 20040408 DE 2002-10245164

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	35 20000173770	***	20000721	0.0	2001 310111	200710
						26
					<	
PRAI	DE 2002-10245164	A	20020926	<		
	WO 2003-EP9432	W	20030826	<		
	US 2005-529148	A2	20050324			
AB	Polysulfane (H2Sx)					
	catalytically conve					carbon,
	Al203, Si02, or zeo					
IT	7704-34-9P, Sulfur,			-06-41	?	
	, Hydrogen sulfide,					
	(procedure for co					
	hydrogen sulfide resulting in hydr					
DM	7704-34-9 HCA	ogen s	surrice Syn	thesi	5)	
RN CN	Sulfur (CA INDEX NA	ME)				
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S						
RN	7783-06-4 HCA					
CN	Hydrogen sulfide (H2	S) (C	CA INDEX NA	ME)		
H2S						
IC	ICM B01D053-48					
	ICS B01D053-86					
cc	49-2 (Industrial Inc	rganio	Chemicals)		
ST	polysulfane catalyti				1	
	sulfide manuf; sulfu					
IT	Zeolites (synthetic)					
	(for conversion c					
	sulfide and sulfu			esult:	ing in	
	hydrogen sulfide					
ΙT	7440-44-0, Carbon, p					
	(activated; for c	onvers	sion of pol	ysulfa	ane in	

hydrogen sulfide and sulfur in gas flows resulting in hydrogen sulfide synthesis)

IT 1344-28-1, Alumina, processes 7631-86-9, Silica, processes
 (for conversion of polysulfane in hydrogen
 sulfide and sulfur in gas flows resulting in

hydrogen sulfide synthesis)
IT 7704-34-9P, Sulfur, preparation 7783-06-4P

, Hydrogen sulfide, preparation

(procedure for conversion of polysulfane in hydrogen sulfide and sulfur in gas flows resulting in hydrogen sulfide synthesis)

IT 37331-50-3, Sulfane

(procedure for conversion of polysulfane in hydrogen sulfide and sulfur in gas flows resulting in hydrogen sulfide synthesis)

L64 ANSWER 10 OF 37 HCA COPYRIGHT 2008 ACS on STN AN 129:241066 HCA Full-text

AN 129:241000 HCA FULL-

OREF 129:48971a,48974a

- ${\tt TI} \quad {\tt Determining priority hazardous substances related to hazardous waste sites}$
- AU Roney, Nickolette; Henriques, William D.; Fay, Mike; Holler, James S.; Susten, Sandra S.
- CS Public Health Service, Agency for Toxic Substances and Disease Registry, U.S. Department of Health and Human Services, Atlanta, GA, 30333, USA
- SO Toxicology and Industrial Health (1998), 14(4), 521-532 CODEN: TIHEEC; ISSN: 0748-2337
- PB Princeton Scientific Publishing Co., Inc.
- DT Journal
- LA English
- AB Hazardous substances on the Comprehensive Environmental Response, Compensation, and Liability Act were ranked.
- IT 7782-50-5, Chlorine, biological studies 7783-06-4, Hydrogen sulfide, biological studies 15117-53-0, Sulfur-35, biological studies

(detg. priority hazardous substances related to hazardous waste sites)

RN 7782-50-5 HCA

CN Chlorine (CA INDEX NAME)

C1-C1

RN

H2S

RN 15117-53-0 HCA

CN Sulfur, isotope of mass 35 (CA INDEX NAME)

35s

CC 4-4 (Toxicology)

Section cross-reference(s): 8

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

- L64 ANSWER 18 OF 37 HCA COPYRIGHT 2008 ACS on STN
- AN 122:60377 HCA Full-text

OREF 122:11559a,11562a

- TI Geochemical implications of subaqueous molten sulfur at Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan
- AU Takano, Bokuichiro; Saitoh, Hiroko; Takano, Etsu
- CS Dep. Chem., Univ. Tokyo, Tokyo, 153, Japan
- SO Geochemical Journal (1994), 28(3), 199-216 CODEN: GEJOBE; ISSN: 0016-7002
- DT Journal
- LA English
- AB Crater lakes with active subag, fumaroles often contain molten sulfur pools on the lake floor. Volcanic gases passing through the sulfur pools carry hollow spherules of solidified molten sulfur to the surface of crater lakes. This sulfur dissolves SO2 and M2S gases and releases these gases into the water. The sulfur also contains homocyclic sulfur (cycl. Sx, x = 6-16) and probably sulfane monosulfonates. The concn. of cyclic S7 increases with increasing temp. between 120 and 175°, which is useful to est. the temps. of subaq. molten sulfur pools. The gases drastically lower viscosity of the molten sulfur . This may be due to blockage of growing longchain sulfur mols. by the dissolved gases. Thus a jump in viscosity at 159° obsd. for pure sulfur is not likely to be present in subaq. molten sulfur at crater lakes. Based on the chem. and morphol. of sulfur slicks, activity of subaq. fumaroles can be divided into four stages (I-IV), each of which may serve for qual. in situ monitoring of crater lakes. At Stage I, no molten sulfur pools exist on the

lake floor and fumaroles discharge low temp. gases (<119°) contg. only traces of SO2; at Stage II, subaq. molten sulfur pools (119° < T < 150°) are formed, releasing yellow hollow spherules of sulfur with no tails; at Stage III, the fumarolic temp. increases to >150°, resulting in an increase in molten sulfur viscosity; and at Stage IV, frequent phreatic or geyser-like eruptions are obsd. The molten sulfur pools are dispersed into pieces on the lake floor at this stage.

IT 10544-50-0, Sulfur, mol. (S8), occurrence 21459-04-1

, Cycloheptasulfur, occurrence

(in molten sulfur in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Jaoan)

RN 10544-50-0 HCA

CN Sulfur, mol. (S8) (CA INDEX NAME)

RN 21459-04-1 HCA CN Sulfur, mol. (S7) (CA INDEX NAME)

IT 7704-34-9, Sulfur, occurrence

(subaq. molten; in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

CC 53-3 (Mineralogical and Geological Chemistry)

ST sulfur subag molten Yugama Crater Lake

IT Fumaroles

(subaq. molten sulfur in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan)

IT Waters, natural

(lake, caldera, subaq. molten sulfur in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan)

IT 10544-50-0, Sulfur, mol. (S8), occurrence 21459-04-1

, Cycloheptasulfur, occurrence

(in molten sulfur in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan)

IT 7704-34-9, Sulfur, occurrence

(subaq. molten; in waters as indication of fumarolic activity at bottom of Yugama Crater Lake, Kusatsu-Shirane Volcano, Japan)

L64 ANSWER 19 OF 37 HCA COPYRIGHT 2008 ACS on STN

AN 114:234441 HCA Full-text

OREF 114:39439a,39442a

TI Land disposal restrictions for third third schedule wastes

CS United States Environmental Protection Agency, Washington, DC, 20460, USA

SO Federal Register (1991), 56(21), 3864-928, 31 Jan 1991 CODEN: FEREAC; ISSN: 0097-6326

DT Journal

LA English

AB Regulations on prohibition of land disposal of certain hazardous wastes are amended under the Federal Resource Conservation and Recovery Act. These amendments include: treatment stds. for certain solvent wastes, clarification of the term multisource leachate, regulations for small quantity generators, the definition of inorg. solid debris, application of the Toxicity Characteristic Leaching Procedure and the Extn. Procedure in detg. land disposal restrictions, addn. of acid leaching-chem. pptn. and thermal recovery of metals to the list of technologies for waste treatment, tables of regulated hazardous constituent concns. in wastewaters and nonwastewaters, technol.-based stds. by waste code, and effective dates of regulation for the specific wastes.

II 7783-06-4, Hydrogen sulfide, uses and

miscellaneous 18496-25-8, Sulfide
(hazardous wastes contg., land disposal of, stds. for)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

RN 18496-25-8 HCA

CN Sulfide (CA INDEX NAME)

s2-

IT 7782-50-5P, Chlorine, uses and miscellaneous (wastes from mercury cell prodn. of, land disposal of, stds. for)

RN 7782-50-5 HCA

CN Chlorine (CA INDEX NAME)

C1-C1

CC 60-5 (Waste Treatment and Disposal)

=> D L65 1-10 TI

L65 ANSWER 1 OF 10 HCA COPYRIGHT 2008 ACS on STN

- TI Alternatives for processing metal sulfides without SOx emissions
- L65 ANSWER 2 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI The preparation of chalcogenide glasses in chlorine reactive atmosphere
- L65 ANSWER 3 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Effect of pesticides on most probable number of soil microbes from tea (Camellia sinensis) plantations and uncultivated land enumerated in enrichment media
- L65 ANSWER 4 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Process for preparing sulphur tetrafluoride by reduction of a uranium fluoride
- L65 ANSWER 5 OF 10 HCA COPYRIGHT 2008 ACS on STN

- TI Synthesis and properties of silica with chemically fixed sulfur-containing organic compounds
- L65 ANSWER 6 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Persistence and residues of carbofuran, disulfoton and endosulfan used for the control of major pests of sorghum crop
- L65 ANSWER 7 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Reactions of active nitrogen with sulfur compounds
- L65 ANSWER 8 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Fixative for keratin fibers
- L65 ANSWER 9 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Studies on the effect of BZ 55 and D 860 on the pancreatic islet cells of rat
- L65 ANSWER 10 OF 10 HCA COPYRIGHT 2008 ACS on STN
- TI Compounds of alummium, chlorine and sulfur
- => D L66 1-20 TI
- L66 ANSWER 1 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Removal of polysulfanes from hydrogen sulfide streams
- L66 ANSWER 2 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI The sulfane sulfur of persulfides is the actual substrate of the sulfur-oxidizing enzymes from Acidithiobacillus and Acidiphilium spp.
- L66 ANSWER 3 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Product class 7: 1,2-dithiolium salts and related compounds
- L66 ANSWER 4 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI A Chemical Equilibrium Equation of State Model for Elemental Sulfur and Sulfur-Containing Fluids
- L66 ANSWER 5 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI An Experimental Study on the Kinetics of the Formation and Decomposition of Sulfanes in the Sulfur/H2S System
- L66 ANSWER 6 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Oxidation of hydrogen sulfide by a methanol

- solution of sulfur dioxide and production of cyclooctasulfane
- L66 ANSWER 7 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Ab initio study of hypervalent sulfur hydrides as model intermediates in the interconversion reactions of compounds containing sulfur-sulfur bonds
- L66 ANSWER 8 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Novel symmetrical and mixed carbamoyl and aminopolysulfanes by reactions of (alkoxydichloromethyl)polysulfanyl substrates with N-methylaniline
- L66 ANSWER 9 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfurization of azines. Part VI. Sulfurization of Py-quinolyl sulfides
- L66 ANSWER 10 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Separation of dihydrogen polysulfides (polysulfanes) using reversed-phase HPLC
- L66 ANSWER 11 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur in aqueous solution
- L66 ANSWER 12 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Liquid hydrogen sulfide in contact with sulfur
- L66 ANSWER 13 OF 20 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI}$ The chemistry of sulfur. LII. Thiocyanogen trichloride and some of its derivatives
- L66 ANSWER 14 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Acids of sulfur. XII. On the problem of Wackenroder's solution
- L66 ANSWER 15 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Addition of hydrogen sulfide to the nitrile group of arylsulfonylcyanamides by means of thiosulfuric acid
- L66 ANSWER 16 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XL. Thermochemistry of the sulfanes: enthalpies of formation and bond energies
- L66 ANSWER 17 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XXX. Preparation of the sulfanes, H2S2, H2S3, H2S4, and H2S5
- L66 ANSWER 18 OF 20 HCA COPYRIGHT 2008 ACS on STN

- TI The chemistry of sulfur. XXXII. Kinetic investigation of the thermal decomposition of ${\tt disulfane}$ H2S2
- L66 ANSWER 19 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI The chemistry of sulfur. XXIX. The preparation of crude sulfanes
- L66 ANSWER 20 OF 20 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XIX. Electrochemical preparation of sulfanes, H2Sn
- => D L66 1,12,17,19 BIB ABS HITSTR HITIND
- L66 ANSWER 1 OF 20 HCA COPYRIGHT 2008 ACS on STN
- AN 149:156324 HCA Full-text
- TI Removal of polysulfanes from hydrogen sulfide streams
- IN Moller, Alexander; Bock, Wolfgang; Taugner, Wolfgang; Heinzel, Harald; Rautenberg, Stephan
- PA Evonik Degussa G.M.B.H., Germany
- SO U.S. Pat. Appl. Publ., 4pp., Cont.-in-part of U.S. Ser. No. 529,148. CODEN: USXXCO
- DT Patent
- LA English

LA FAN.	English CNT 2				
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PΙ	US 20080175778	A1	20080724	US 2007-976717	
					200710
					26
				<	
	DE 10245164	A1	20040408	DE 2002-10245164	
					200209
					26
				<	
	WO 2004028963	A1	20040408	WO 2003-EP9432	
					200308
					26
				<	
	W: AE, AG, AL	. AM. A'	I. AU. AZ. B	A. BB. BG. BR. BY. BZ.	CA. CH.

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK

SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,

SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 20050265913 A1 20051201 US 2005-529148 200503

<--

US 7326393 B2 20080205 PRAI DE 2002-10245164 A 20020926 <--WO 2003-EP9432 W 20030826 <--US 2005-529148 A2 20050324

AB Polysulfanes are removed from crude gas formed during the prodn. of hydrogen sulfide from sulfur and hydrogen by passing the crude gas through a wash system where it is brought into contact with a wash soln. of water or methanol; and collecting the purified gas from the wash soln. The washing soln. can contain 0.5-20 wt.% of an alkali or alk. earth hydroxide or oxide, org. amine, amino alc., or ammonia. The wash system is a jet washer. The process further includes a second wash step in which the purified gas is passed through a countercurrent washer contg. an aq. or methanolic soln. The purified gas may also be further treated by adsorption.

IT 7783-06-4P, Hydrogen sulfide (

H2S), preparation

(removal of polysulfanes from hydrogen sulfide streams)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H2S

IT 7704-34-9, Sulfur, reactions
(removal of polysulfanes from hydrogen sulfide streams)
RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

```
INCL 423242400: 423243010: 423243080: 423243060
     49-8 (Industrial Inorganic Chemicals)
     Section cross-reference(s): 48
ST
     polysulfane removal hydrogen sulfide
     purifn jet washing adsorption
ΙT
     Alcohols, processes
        (amino, washing fluid contg.; removal of polysulfanes
        from hydrogen sulfide streams)
ΤТ
     Adsorption
     Adsorption apparatus
     Scrubbers
     Wet scrubbing
        (removal of polysulfanes from hydrogen
        sulfide streams)
     Alkali metal hydroxides
ΤТ
     Alkaline earth hydroxides
     Amines, processes
        (washing fluid contg.; removal of polysulfanes from
        hydrogen sulfide streams)
     7440-44-0, Carbon, uses
IΤ
        (activated, adsorbent; removal of polysulfanes from
        hydrogen sulfide streams)
     7783-06-4P, Hydrogen sulfide (
ΙT
     H2S), preparation
        (removal of polysulfanes from hydrogen
        sulfide streams)
ΙT
     1333-74-0, Hydrogen, reactions 7704-34-9, Sulfur,
     reactions
        (removal of polysulfanes from hydrogen
        sulfide streams)
ΙT
     50864-71-6, Hydrogen polysulfide
        (removal of polysulfanes from hydrogen
        sulfide streams)
ΙT
     102-71-6, Triethanolamine, processes 1310-58-3, Potassium
     hydroxide, processes 1310-73-2, Sodium hydroxide, processes
     7664-41-7, Ammonia, processes
        (washing fluid contg.; removal of polysulfanes from
        hydrogen sulfide streams)
     67-56-1, Methanol, uses
IΤ
        (washing fluid; removal of polysulfanes from
        hydrogen sulfide streams)
L66 ANSWER 12 OF 20 HCA COPYRIGHT 2008 ACS on STN
     72:83443 HCA Full-text
AN
OREF 72:15203a,15206a
     Liquid hydrogen sulfide in contact with sulfur
TΙ
```

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ΑU
     Smith, Jerry Joseph; Jensen, Dan; Meyer, Beat
     Chem. Dep., Univ. of Washington, Seattle, WA, USA
CS
     Journal of Chemical and Engineering Data (1970), 15(1),
SO
     CODEN: JCEAAX: ISSN: 0021-9568
     Journal
DT
LA
     English
AB
     S in contact with liq. H2S at equil. pressure 10-6 was studied
     between -81 and 120^{\circ}. The solv. of solid S is 5 + 10-6 mole of S8
     per q of M2S at -80^{\circ} and 5 + 10-5 at 80^{\circ}. Over this range, log soly.
     vs. 1/T gives a straight line. From a least squares anal. of the
     data, \Delta HS = 2.1 \pm 0.1 \text{ kcal/mole.} From 80 to -80°, the soly. can be
     represented by \log S = (-4.52 + 102/T) - 3.00. In contact with liq.
     M2S, S m. 98°, below the crit. point of M2S. The m.p. depression of
     S is about 20°, indicating that #2S dissolves appreciably in solid S.
     NMR spectra show that no detectable chem. reaction occurs up to 120°.
     Photolysis yields a white, finely powd. ppt., probably photosulfur,
     which redissolves or converts to orthorhombic S within 4 weeks after
     irradn.; no sulfanes are formed. Slow reaction occurs between liq. S
     and gaseous H2S above 150°.
ΙT
     7783-06-4, properties
        (solv. in, of sulfur)
     7783-06-4 HCA
RN
CN
     Hydrogen sulfide (H2S) (CA INDEX NAME)
H2S
IΤ
    7704-34-9, properties
        (solv. of, in lig. hydrogen sulfide)
     7704-34-9 HCA
RN
CN
     Sulfur (CA INDEX NAME)
S
     68 (Phase Equilibriums, Chemical Equilibriums, and Solutions)
CC
ST
     hydrogen sulfide S system; sulfur H
     sulfide system
TT
     Photolysis
        (of sulfur, in contact with lig. hydrogen
        sulfide)
ΙT
     Heat of solution
```

```
(of sulfur, in hydrogen sulfide)
     7783-06-4, properties
TT
        (soly. in, of sulfur)
ΤТ
     7704-34-9, properties
        (solv. of, in lig. hydrogen sulfide)
L66
    ANSWER 17 OF 20 HCA COPYRIGHT 2008 ACS on STN
     51:61453 HCA Full-text
AN
OREF 51:11142e-q
     Chemistry of sulfur. XXX. Preparation of the
TΙ
     sulfanes, H2S2, H2S3, H2S4, and H2S5
     Feher, F.; Laue, W.; Winkhaus, G.
AU
CS
     Univ. Cologne, Germany
     Zeitschrift fuer Anorganische und Allgemeine Chemie (1956
SO
     ), 288, 113-22
     CODEN: ZAACAB; ISSN: 0044-2313
DТ
     Journal.
LA
    Unavailable
AB
     cf. C.A. 51, 10204e. The procedure for the prepn. of H2S2, H2S3,
     H2S4, and H2S5 by the cracking of raw sulfanes at pressures of 10-15
     mm. Hq is described. The procedures for purification are also
     discussed. The ds. are 1.334, 1.491, 1.582, 1.644 (all \pm
     0.001)q./cc., resp. The kinematic viscosities are 0.00462, 0.00886,
     0.0166, and 0.0336 (all \pm 0.0001) Stokes, resp. The dynamic
     viscosities are 0.00616, 0.1321, 0.0263, and 0.0552 (all \pm 0.0001)
     poise, resp. The n20D values are 1.631, 1.729, 1.791, and 1.836 (all
     ± 0.001), resp. Raman lines are listed.
ΙT
     7704-34-9, Sulfur
        (chemistry of)
     7704-34-9 HCA
RN
CN
     Sulfur (CA INDEX NAME)
S
     6 (Inorganic Chemistry)
ΙT
     Spectra, Raman
        (of sulfane derivs.)
     Hydrogen sulfides
ΙT
        (prepn. and properties of H2S2, H2S3, H2S4 and H2S5)
ΙT
     7704-34-9, Sulfur
        (chemistry of)
L66
    ANSWER 19 OF 20 HCA COPYRIGHT 2008 ACS on STN
AN
     51:46252 HCA Full-text
```

OREF 51:8566a-c

- TI The chemistry of sulfur. XXIX. The preparation of crude sulfanes
- AU Feher, F.; Laue, W.
- CS Univ. Cologne, Germany
- SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1956), 288, 103-12 CODEN: ZAACAB; ISSN: 0044-2313
- DT Journal
- LA Unavailable
- AB cf. C.A. 43, 3156f; 44, 965g; 51, 3337g. The procedure for the prepn. of crude sulfane mixts. by the addn. of HCl to Na2Sx is carried out on a continuous basis. The influence of various factors on the yield and on the compn. of the raw oils is considered, with the compn. varying from about H2S4.5 to H2S7, depending upon the compn. of the H2Sx. Equipment for the production of 2 kg. of raw sulfanes per day is described. In one expt., 300 g. S, 1200 g. Na2S.9H2O, and 500 ml. H2O are mixed together on a water bath until all S is dissolved. The mixt. is cooled to -20° and 1:1 HCl (cooled to -10°) is added. After the reaction is complete, the oil is sepd., washed with HCl, and finally dried with P2O5. The yield is 300-350 g. of raw sulfanes with the compn. H2S5-H2S5.5.
- IT 7704-34-9, Sulfur (chemistry of)
- RN 7704-34-9 HCA
- CN Sulfur (CA INDEX NAME)

s

- CC 6 (Inorganic Chemistry)
- IT Hydrogen sulfides (prepn. of H2Sx)
- IT 7704-34-9, Sulfur (chemistry of)
- => D L67 1-67 TI
- L67 ANSWER 1 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Calculation of the visible-UV absorption spectra of hydrogen sulfide, bisulfide, polysulfides, and As and Sb sulfides, in aqueous solution
- L67 ANSWER 2 OF 67 HCA COPYRIGHT 2008 ACS on STN

- TI Novel species for the sulfur zoo: isomers of S8
- L67 ANSWER 3 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Thiosulfoxides (X2S=S) and disulfanes (XSSX): first observation of organic thiosulfoxides
- L67 ANSWER 4 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur isotope fractionation during bacterial reduction and disproportionation of thiosulfate and sulfite
- L67 ANSWER 5 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The behavior of metals and sulfur during the formation of hydrothermal mercury-antimony-arsenic mineralization, Uzon Caldera, Kamchatka, Russia
- L67 ANSWER 6 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Carbon black and its manufacture process and rubber mixtures containing the same
- L67 ANSWER 7 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI How Unstable are Thiosulfoxides? An ab Initio MO Study of Various Disulfanes RSSR (R = H, Me, Pr, All), Their Branched Isomers R2SS, and the Related Transition States
- L67 ANSWER 8 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Low-temperature addition of hydrogen polysulfides to olefins: formation of 2,2'-dialkyl polysulfides from alk-1-enes and cyclic (poly)sulfides and polymeric organic sulfur compounds from a.m-dienes
- L67 ANSWER 9 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Experimental study of the system water-hydrogen sulfide-crystalline sulfur under low-temperature hydrothermal conditions
- L67 ANSWER 10 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Kinetics of isotope exchange reactions involving intra- and intermolecular reactions: I. Rate law for a system with two chemical compounds and three exchangeable atoms
- L67 ANSWER 11 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The possible role of thiosulfate in the precipitation of sulfur-34-rich barite in some Mississippi Valley-type deposits
- L67 ANSWER 12 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI An ab initio study of the **polysulfane** series hydrogen sulfide (H2S2 to H2S6) and of the sulfur

octamer

- L67 ANSWER 13 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Determination of sulfide in sewage effluents using a new spectrophotometric method
- L67 ANSWER 14 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Application of secondary ion mass spectrometry (SIMS) to the study of sulfur crosslinks in isoprene rubber, natural rubber, and SBR vulcanizates
- L67 ANSWER 15 OF 67 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI}$ Chalcogen metallocene compounds. Reaction of zirconocene and hafnocene dihydrides with sulfur, selenium, and tellurium
- L67 ANSWER 16 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Cadmium polysulfide complexes, [Cd(Sx)(Sy)]2-: syntheses, crystal and molecular structures, and cadmium-113 NMR studies
- L67 ANSWER 17 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Novel synthetic routes to disulfur and disulfur monoxide ligands: nucleophilic attack at coordinated imino-oxo-\u03c4-sulfanes
- L67 ANSWER 18 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Mineral composition and geochemistry of rocks with bacterial overgrowths from submarine hydrothermal deposits
- L67 ANSWER 19 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Investigations on microbial sulfur respiration. 1. Activation and reduction of elemental sulfur in several strains of eubacteria
- L67 ANSWER 20 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur isotope exchange reactions in the aqueous system: thiosulfate-sulfide-sulfate at hydrothermal temperature
- L67 ANSWER 21 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Bond dissociation energies in sulfanes: an ab initio study
- L67 ANSWER 22 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Composition of crude $\operatorname{sulfane}$ oil, identification of the $\operatorname{sulfanes}$ H2S9 to H2S35
- L67 ANSWER 23 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Semimicro methods for analysis of labile sulfide and of labile sulfide plus ${\tt sulfane}$ sulfur in unusually stable

iron-sulfur proteins

- L67 ANSWER 24 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Organometallic sulfur complexes. 1. Syntheses, structures, and characterizations of organoiron sulfane complexes (u-5x)[(n5-C5H5)Fe(CO)212 (x = 1-4)
- L67 ANSWER 25 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Origin of the labile sulfide in the iron-sulfur proteins of Escherichia coli
- L67 ANSWER 26 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The biosynthetic origin of the sulfur atoms in lipoic acid
- L67 ANSWER 27 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Stable isotope fractionation by Clostridium pasteurianum. 4. Sulfur isotope fractionation during enzymatic trithionate, thiosulfate and sulfite reductions
- L67 ANSWER 28 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Ab initio Hartree-Fock-Slater calculations of polysulfanes H2Sn (n = 1-4) and the ions HSn- and Sn2-
- L67 ANSWER 29 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI On the possible roles of gaseous sulfur and $\operatorname{sulfanes}$ in the atmosphere of Venus
- L67 ANSWER 30 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur isotope fractionation by Salmonella heidelberg: inverse isotope effects during growth on high concentrations of sodium sulfite
- L67 ANSWER 31 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Thiosulfate formation and associated isotope effects during sulfite reduction by Clostridium pasteurianum
- L67 ANSWER 32 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of phosphorus. 59. Synthesis and structure of 1,2,4-triphenylcyclo-3,5-dithia-1,2,4-triphosphane-1-thione
- L67 ANSWER 33 OF 67 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI} \quad {\tt Mechanism} \ {\tt for} \ {\tt desulfuration} \ {\tt of} \ {\tt sulfur-containing} \ {\tt substances} \ {\tt on} \ {\tt Raney} \ {\tt nickel} \ {\tt and} \ {\tt iron} \ {\tt catalysts}$
- L67 ANSWER 34 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI High dose rate radiolysis of hydrogen sulfide. Sulfur as an electron scavenger

- L67 ANSWER 35 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Studies of sulfur in liquid hydrogen sulfide and sulfur dioxide and the use of chlorosulfanes in the study of elemental sulfur
- L67 ANSWER 36 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Thermal decomposition of tri- and tetrasulfanes
- L67 ANSWER 37 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Rapid method for determining sulfur in organic substances
- L67 ANSWER 38 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Thiolysis of sulfuryl chloride
- L67 ANSWER 39 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Ultramicro and trace analysis of organic substances. I. Determination of very small quantities of substances of low volatility based upon their contents of fluorine, sulfur, or phosphorus
- L67 ANSWER 40 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Determination of sulfur compounds in sulfate turpentine
- L67 ANSWER 41 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Organic sulfur compounds in the kraft pulping process
- L67 ANSWER 42 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Acids of sulfur. V. Degradation of chainlike sulfur compounds
- L67 ANSWER 43 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Bond energies and the interactions between next-nearest neighbors. I. Saturated hydrocarbons, diamond, sulfanes, S8, and organic sulfur compounds
- L67 ANSWER 44 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Acids of sulfur. XVI. Iodometric and colorimetric determination of sulfane, elemental sulfur, and sulfane-sulfur mixtures
- L67 ANSWER 45 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The chemistry of sulfur. XLVIII. The reaction of sulfanes with chloral
- L67 ANSWER 46 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Contributions to the chemistry of sulfur. XLIX. The homologous series of ${\tt cyanosulfanes}, \, {\tt Sn}\,({\tt CN})\,2$

- L67 ANSWER 47 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XLVII. The molar heat of gaseous disulfane and the barrier potential of the inner rotation
- L67 ANSWER 48 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XLIV. Enthalpies of vaporization, vapor pressures, boiling points, critical temperatures and pressures, and Trouton's constants of sulfanes
- L67 ANSWER 49 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XXXIX. The viscosities of the sulfanes
- L67 ANSWER 50 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XXXVI. The reaction of definite higher alkali sulfides with anhydrous formic acid
- L67 ANSWER 51 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The chemistry of sulfur. XXXIV. The molar volumes and molar refractivities of the **sulfanes** and their dependence on chain length
- L67 ANSWER 52 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur. XXVII. Molecular distribution in the condensation reaction between sulfanes and halosulfanes
- L67 ANSWER 53 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Semimicrodetermination of sulfur in cystine and methionine
- L67 ANSWER 54 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Metabolite analogs. IV. Preparation of some sulfur-containing benzimidazoles with substituents on the 4(7)- and 6(5)-positions
- L67 ANSWER 55 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XXII. The reaction between sulfanes H2Sn and chlorosulfanes SmCl2
- L67 ANSWER 56 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Chemistry of sulfur. XVI. The nomenclature of chaintype sulfur compounds
- L67 ANSWER 57 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Semimicromethod for determining sulfur in organic compounds
- L67 ANSWER 58 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Synthesis of physiologically active compounds labeled with sulfur35

- L67 ANSWER 59 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Intermediary sulfur metabolism. II. Cystine-balance experiments with Escherichia coli
- L67 ANSWER 60 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Some aspects of the action of sulfonamides. I. Binding of S35 labeled sulfanilamide by Escherichia coli
- L67 ANSWER 61 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The influence of small quantities of sulfur and cyanogen compounds on the velocity of oxidation of ferrous ions to ferric ions
- L67 ANSWER 62 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Biquanide derivatives
- L67 ANSWER 63 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Microdetermination of sulfur in organic molecules by the hydrogenation method. I. Microchemical determination of sulfur
- L67 ANSWER 64 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Sulfur studies. XVIII. Sulfonium derivatives of p-phenylphenacyl bromide
- L67 ANSWER 65 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI Determination of sulfur in organic compounds by hydrogenation
- L67 ANSWER 66 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI General method for determining sulfur in organic materials
- L67 ANSWER 67 OF 67 HCA COPYRIGHT 2008 ACS on STN
- TI The determination of antimony in ores
- => D L67 55 BIB ABS HITSTR HITIND
- L67 ANSWER 55 OF 67 HCA COPYRIGHT 2008 ACS on STN
- AN 50:27155 HCA Full-text
- OREF 50:5442e-q
- TI Chemistry of sulfur. XXII. The reaction between sulfanes H2Sn and chlorosulfanes SmCl2
- AU Feher, F.; Laue, W.; Kraemer, J.
- CS Univ. Cologne, Germany
- SO Zeitschrift fuer Anorganische und Allgemeine Chemie (1955), 281, 151-60 CODEN: ZAACAB; ISSN: 0044-2313
- DT Journal
- LA Unavailable

- AB cf. C.A. 49, 12169i. The ds., refractive indexes, viscosities at 20° , and surface tensions at 20° are given for SnCl2 with n = 1, 2, 3, 4, 5.1, 7.5, and 14.2. The samples with n > 2 were not exhaustively purified. The mol. vol., mol. refraction, and parachor for SnCl2 with n = 1, 2, 3, and 4, have approx. const. increments through the series. This suggests that the S atoms are equiv. and supports the suggested chain structure.
- IT 7704-34-9, Sulfur (chemistry of)
- RN 7704-34-9 HCA
- CN Sulfur (CA INDEX NAME)

S

- CC 6 (Inorganic Chemistry)
- IT Hydrogen sulfides
- (reaction of H2Sx with SmCl2)
- IT 7704-34-9, Sulfur (chemistry of)
- => D L76 1-12 TI
- L76 ANSWER 1 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Production of insoluble sulfur or soluble sulfur and insoluble sulfur mixture and/or their mixtures with hydrocarbon oil
- L76 ANSWER 2 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI A high capacity manganese-based sorbent for regenerative high temperature desulfurization with direct sulfur production. Conceptual process application to coal gas cleaning
- L76 ANSWER 3 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI A catalyst based on titanium and method for its preparation
- L76 ANSWER 4 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Processing of municipal plastic wastes by gasification
- L76 ANSWER 5 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Process for removing sulfur compounds
- L76 ANSWER 6 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Process for purifying high-temperature reducing gases and composite power plant with coal gasification

- L76 ANSWER 7 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Processing of sulfate-containing wastewater
- L76 ANSWER 8 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Manufacture of catalysts for the conversion of hydrogen sulfide and/or sulfur dioxide, the catalysts obtained, and their use
- L76 ANSWER 9 OF 12 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI} \quad {\tt Removal} \ {\tt of} \ {\tt the} \ {\tt halides} \ {\tt in} \ {\tt desorbed} \ {\tt gas} \ {\tt in} \ {\tt boiler} \ {\tt flue} \ {\tt gas} \ {\tt dry} \ {\tt desulfurization}$
- L76 ANSWER 10 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI The Claus process: thermodynamics of sulphane production
- L76 ANSWER 11 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Iron chloride activated oxidation of sulfide ores
- L76 ANSWER 12 OF 12 HCA COPYRIGHT 2008 ACS on STN
- TI Reduction of metal sulfides occurring in a refining process
- => D L76 1,5,10 BIB ABS HITSTR HITIND
- L76 ANSWER 1 OF 12 HCA COPYRIGHT 2008 ACS on STN
- AN 142:394502 HCA Full-text
- TI Production of insoluble sulfur or soluble sulfur and insoluble sulfur mixture and/or their mixtures with hydrocarbon oil
- IN Macho, Vendelin; Jurecek, Ludovit; Komora, Ladislav; Kavala,
- Miroslav; Jurecekova, Emilia; Vojdasova, Viera
- PA VUP, A. S., Slovakia
- SO Slovakia, 9 pp. CODEN: SLXXFO
- DT Patent
- DI Facein
- LA Slovak

FAN.CNT 1										
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE					
PI	SK 283885	B6	20040406	SK 1998-1366						
					199810					

PRAT SK 1998-1366

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AB Insol. S or a mixt. of sol. S and insol. S and/or their mixts. with hydrocarbon oils are produced by using oxidn.-redn. reactions of lowmol. S compds. (e.g., CS2, COS, #2S) in the Claus process. After the partial combustion of the low-mol. S compds. or their mixts. with org. compds., a reaction gas with the SO2/H2S mol. ratio of 1:(2-2.5) is cooled to -10 to +50° and led to an aq. or aq.-alc. medium. Insol. S is withdrawn, ground and/or ground and formulated with oil and/or sol. S and/or insol. S. In another option, the molten S from the Claus process is held ≥3 min at 200-300°, modified with 0.1-1.5 wt.% stabilizer, and quenched by contacting a cooled surface at -30 to +30° or by charging into an ag. and/or colloidal soln. at -10 to +40°. After drying, the product is disintegrated and/or selectively extd. to remove sol. S, dried, disintegrated, and packaged and/or formulated with hydrocarbon oil. The method is suitable for liquidation of #2\$ and other S compds. from hydrodesulfurization of petroleum fractions and residues. The insol. S is suitable as a vulcanization agent.

IT 7783-06-4, Hydrogen sulfide, reactions

(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

H2S

IT 7647-01-0, Hydrochloric acid, uses

(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7647-01-0 HCA

CN Hydrochloric acid (CA INDEX NAME)

HC1

IT 7704-34-9P, Sulfur, preparation

(prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

CN Chlorine (CA INDEX NAME)

C1-C1

IC ICM C01B017-02
CC 49-1 (Industrial Inorganic Chemicals)
 Section cross-reference(s): 39, 51

ST insol sulfur produ Claus process

IT 75-15-0, Carbon disulfide, reactions 463-58-1, Carbonyl sulfide 7446-09-5, Sulfur dioxide, reactions 7783-06-4, Hydrogen sulfide, reactions

(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

IT 56-81-5, Glycerol, uses 57-55-6, Propylene glycol, uses 64-17-5, Ethanol, uses 64-18-6, Formic acid, uses 64-19-7, Acetic acid, uses 107-21-1, Ethylene glycol, uses 111-46-6, Diethylene glycol, uses 7647-01-0, Hydrochloric acid, uses 7664-38-2, Phosphoric acid, uses 7664-93-9, Sulfuric acid, uses 7782-99-2, Sulfurous acid, uses 9002-89-5, Polyvinyl alcohol 9004-34-6D, Cellulose, ether 25265-71-8, Dipropylene glycol 25322-68-3, Polyethylene glycol

(in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

IT 7704-34-9P, Sulfur, preparation

(prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

IT 57-11-4, Stearic acid, uses 7553-56-2, Iodine, uses 7726-95-6, Bromine, uses 7782-50-5, Chlorine, uses 7791-25-5,

Sulfuryl chloride (SO2C12)

(stabilizer in prodn. of insol. sulfur or sol. sulfur and insol. sulfur mixt. and/or their mixts. with hydrocarbon oil)

 ${\tt L76}$ $\,$ ANSWER 5 OF 12 $\,$ HCA $\,$ COPYRIGHT 2008 ACS on STN $\,$

AN 119:209535 HCA Full-text

OREF 119:37211a,37214a

TI Process for removing sulfur compounds

IN Lowery, Richard E.; Engelbert, Donald R.

PA Phillips Petroleum Co., USA

SO U.S., 10 pp. CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

PΤ

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
[US 5219542	A	19930615	US 1991-727780	
					199107
					1.0

PRAI US 1991-727780

19910710 <--

<--

AB S compds. including #25, S02, COS, and CS2 are removed from S contaminated fluid streams using an absorption compn. contg. 60-90 ZnO, 10-30 zinc phosphate, and .ltorsim.30% by wt. alumina. The absorption compn. also contains an acid selected from the group consisting of HNO3, AcOH, HZSO4, and HCl. The process is suitable for the recovery of S from a Claus plant effluent.

IT 7647-01-0, Hydrochloric acid, uses

(absorbent contg., for sulfur compd. removal from contaminated fluid streams)

RN 7647-01-0 HCA

CN Hydrochloric acid (CA INDEX NAME)

HCl

IT 7704-34-9D, Sulfur, compds. 7783-06-4, Hydrogen sulfide (H2S), miscellaneous

(removal of, from contaminated fluid streams, by absorption, with zinc oxide and zinc phosphate and alumina contq. compn.)

RN 7704-34-9 HCA

CN Sulfur (CA INDEX NAME)

S

RN 7783-06-4 HCA

CN Hydrogen sulfide (H2S) (CA INDEX NAME)

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T.C.
     TCM C01B017-16
     ICS C01B031-20; C01B017-20; B01J008-00
INCL 423230000
     59-4 (Air Pollution and Industrial Hygiene)
CC
     Section cross-reference(s): 49
ΙT
     10103-46-5, Calcium phosphate
                                     64-19-7, Acetic acid, uses
     7647-01-0, Hydrochloric acid, uses
     7664-93-9, Sulfuric acid, uses
                                    7697-37-2, Nitric acid, uses
        (absorbent contq., for sulfur compd. removal from contaminated
        fluid streams)
     75-15-0, Carbon sulfide (CS2), miscellaneous 463-58-1, Carbonyl
IΤ
              7446-09-5, Sulfur dioxide, miscellaneous
     7704-34-9D, Sulfur, compds. 7783-06-4,
     Hydrogen sulfide (H2S), miscellaneous
        (removal of, from contaminated fluid streams, by absorption, with
        zinc oxide and zinc phosphate and alumina contg. compn.)
L76 ANSWER 10 OF 12 HCA COPYRIGHT 2008 ACS on STN
     88:24975 HCA Full-text
AN
OREF 88:3999a,4002a
     The Claus process: thermodynamics of sulphane
TΙ
     production
AU
     Kerr, Richard K.; Berlie, E. M.
CS
     West. Res. and Dev. Ltd., Calgary, AB, Can.
SO
     Energy Processing/Canada (1977), 69(6), 48-51
     CODEN: EPCADS: ISSN: 0319-5759
     Journal
DT
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- LA English

 AB The thermodn. are discussed of sulfane (H2Sx) formation in Claus plants for reaction furnaces, catalytic converters, and S condensers. Equil. formation of H2Sx in the system followed by its dissoln. in condensed S downstream is sufficient to account for concns. of \$14,000 ppm H2Sx dissolved in S.
- IT 7704-34-9P, preparation (manuf. of, thermodn. of sulfane formation in) RN 7704-34-9 HCA
- CN Sulfur (CA INDEX NAME)

- CC 49-1 (Industrial Inorganic Chemicals)
 Section cross-reference(s): 69
- ST sulfane formation Claus process
- IT 50864-71-6P
- (formation of, thermodn. of, in Claus process)
- IT 7704-34-9P, preparation
 - (manuf. of, thermodn. of sulfane formation in)
- => D T.82 1-18 TT
- L82 ANSWER 1 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Effectiveness of natural treatment in a wastewater irrigation district of the Mexico City region: a synoptic field survey. [Erratum to document cited in CA132:112301]
- L82 ANSWER 2 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Effectiveness of natural treatment in a wastewater irrigation district of the Mexico City region: a synoptic field survey
- L82 ANSWER 3 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Gasification as an alternative method for the destruction of sulfur containing waste (ChemChar process)
- L82 ANSWER 4 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Sulchem process for treatment of chemical weapons-related wastes
- L82 ANSWER 5 OF 18 HCA COPYRIGHT 2008 ACS on STN
- $\ensuremath{\mathsf{TI}}$ Determination of organically bound $\ensuremath{\mathsf{sulfur}}$ in $\ensuremath{\mathsf{waste}}$ samples
- L82 ANSWER 6 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Oxygen bomb combustion ion chromatography for elemental analysis of heteroatoms in fuel and wastes development
- L82 ANSWER 7 OF 18 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI} \quad {\tt Methodology} \ {\tt for} \ {\tt selecting} \ {\tt substances} \ {\tt for} \ {\tt the} \ {\tt National} \ {\tt Exposure} \ {\tt Registry}$
- L82 ANSWER 8 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Pesticide chemicals manufacturing category effluent limitations guidelines, pretreatment standards, and new source performance standards
- L82 ANSWER 9 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Determination of the content of noxious oxides in cement industry

waste gases

- L82 ANSWER 10 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Development of a thermal stability-based ranking of hazardous organic compound incinerability
- L82 ANSWER 11 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Odorant for generator gas
- L82 ANSWER 12 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Purification of wastewater from thickol production
- L82 ANSWER 13 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Recovery of sulfuric acid in waste acid
- L82 ANSWER 14 OF 18 HCA COPYRIGHT 2008 ACS on STN
- L82 ANSWER 15 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Colorimetric determination of hydrogen sulfide and methanethiol in industrial effluents
- L82 ANSWER 16 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Improvement of methods of collecting sulfate turpentines and Sulfan
- L82 ANSWER 17 OF 18 HCA COPYRIGHT 2008 ACS on STN
- TI Removing and recovering sulfur dioxide from waste
- gases
- L82 ANSWER 18 OF 18 HCA COPYRIGHT 2008 ACS on STN
- ${\tt TI}$ Sulfur determination in sulfite waste liquor and organic compounds. Potassium permanganate method